

# ChatGPT for Education and Research: A Review of Benefits and Risks

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## Abstract

Generative Pre-trained Transformer (ChatGPT) is an artificial intelligence (AI) tool that can quickly generate detailed responses to prompts and follow-up questions. This emerging AI tool was launched in November 2022 by an American AI research laboratory, called OpenAI, using large language models. In this article, the benefits and risks related to the use of ChatGPT in education and research are discussed. The article argues that ChatGPT has at least five main benefits, such as creating learning assessment, enhancing pedagogical practice, offering virtual personal tutoring, creating an essay or research article outline, and brainstorming ideas. However, there are risks related to academic integrity issues, unfair learning assessment, inaccurate information, and over-reliance on AI. The article offers a set of recommendations for effective use of ChatGPT for educational and research purposes.